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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/997,684	11/29/2001	L. Edwin Fisher	03DV-121695	4569

7590

11/26/2002

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EXAMINER

LAM, THANH

ART UNIT

PAPER NUMBER

2834

DATE MAILED: 11/26/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/997,684

Applicant(s)
Fisher et al.

Examiner
Thanh Lam

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on _____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04/16/2002 is/are a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 4 6) ☐ Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Fisher et al.

Fisher et al. (Figs. 1-14) disclose a motor comprising: a first compartment; a second compartment; a frame; a first and a second end shield disposed adjacent opposing ends of said frame to define said first compartment; an armature shaft extending between said first and second end shields; a stator winding supported by said frame within said first compartment; an armature rotatably supported by said end shields and disposed within said first compartment adjacent said stator winding; a cover comprising a first end, a peripheral edge, and ventilation openings, said cover peripheral edge mounted to said motor adjacent said second end shield, said ventilation openings comprising a plurality of openings positioned along at least part of said cover peripheral edge and in said cover first end; and a switchboard mounted to said second end shield to define said second compartment between said switchboard and said second end shield, said switchboard comprising a mounting means for securing a plurality of electrical components.

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Regarding claim 2, Fisher et al. disclose a motor in accordance with Claim 1 wherein said cover further comprises a plurality of ventilation openings positioned along at least a portion of said cover peripheral edge, said cover peripheral edge ventilation openings extending substantially parallel to said shaft toward said cover first end.

Regarding claim 3, Fisher et al. disclose said second end shield comprises at least one opening in flow communication with said cover peripheral edge ventilation openings, said opening for channeling cooling air from said first compartment into said cover.

Regarding claim 4, Fisher et al. disclose said cover further comprises a plurality of ventilation openings extending through said cover first end, said cover first end ventilation openings extending substantially perpendicular to said shaft, and in flow communication with said cover peripheral edge ventilation openings.

Regarding claim 5, Fisher et al. disclose said cover peripheral edge contacts at least a portion of said switchboard and said second end shield.

Regarding claim 6, Fisher et al. disclose said cover comprises a molded plastic element having a generally cup-shaped cross-section.

Regarding claim 7, Fisher et al. disclose said cover further comprises a shield integrally molded with an interior surface of said cover, said cover shield configured to shield said armature shaft. 8. A two compartment motor comprising: a frame; a first and a second end shield disposed adjacent opposing ends of said frame to define a first compartment; a stator winding supported by said frame within said first compartment; an armature rotatably supported by said

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end shields within said first compartment; a cover comprising a plurality of cooling openings, said cover mounted to said motor adjacent said second end shield; and a switchboard mounted to said second end shield to define said second compartment between said switchboard and said second end shield, said switchboard comprising a mounting means for securing a plurality of electrical components thereto.

Regarding claim 9, Fisher et al. disclose said switchboard is molded, said switchboard mounting means integrally molded with said switchboard.

Regarding claim 10, Fisher et al. disclose said second end shield further comprises at least one of an opening for providing access to an interior of said second compartment, said opening sized to receive at least one electrical conductor therethrough, a plurality of integrally formed cooling openings in flow communication with said cover ventilation openings for channeling cooling air toward and from said motor, and an integrally formed guard to facilitate reducing unintended contact between said armature and said plurality of electrical components within said second compartment.

Regarding claim 11, Fisher et al. disclose at least one of said electrical components comprises a starting capacitor, said switchboard comprising an integrally molded recess area for securing said starting capacitor to said switchboard.

Regarding claim 12, Fisher et al. disclose said plurality of electrical components comprises at least a speed selection switch, at least a portion of said speed selection switch integrally molded with said switchboard.

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Regarding claim 13, Fisher et al. disclose said plurality of electrical components comprises at least a voltage selection switch, at least a portion of said voltage selection switch integrally molded with said switchboard.

Regarding claim 14, Fisher et al. disclose said plurality of electrical components comprises at least an overload device, said switchboard comprises an integrally formed means for mounting said overload device.

Regarding claim 15, Fisher et al. disclose said switchboard comprises a recess for receiving electrical connectors to couple said stator winding to at least one electrical component mounted on said switchboard.

Regarding claim 16, Fisher et al. disclose first and second mating electrical connectors, said first connector electrically coupled to at least one electrical conductor coupled to said switchboard, said second connector electrically coupled to said stator winding, said switchboard comprises a recess adapted to receive said mated first and second connectors.

Regarding claim 17, Fisher et al. disclose said armature comprises a shaft extending into said second compartment, said motor further comprising a centrifugal switch assembly comprising a rotatable portion coupled to said shaft.

Regarding claim 18, Fisher et al. disclose said switchboard comprises an integrally molded recess portion for receiving and shielding at least a portion of said centrifugal switch assembly.

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Regarding claim 19, Fisher et al. disclose said switch assembly further comprises an actuator portion, said switchboard further comprises an integrally formed mounting means for securing said actuator portion.

Regarding claim 20, Fisher et al. disclose said second end shield comprises a central portion, a circumferential rim portion, a plate portion extending therebetween, and a plurality of spokes extending radially outwardly from said central portion.

Regarding claim 21, Fisher et al. disclose said second end shield further comprises at least one opening between said central portion and said circumferential rim portion and between said spokes, said opening in flow communication with said cover cooling openings such that cooling air flows to and from said motor.

Regarding claim 22, Fisher et al. disclose a motor comprising: a first compartment defined between a first end shield and a second end shield; a second compartment; a cover having ventilation openings mounted adjacent said second end shield; and a switchboard assembly comprising a switchboard mounted to said second end shield to define said second compartment.

Regarding claim 23, Fisher et al. disclose said motor further comprises a frame extending between said first end shield and said second end shield defining said first compartment, and an armature shaft extending between said first and second end shields.

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Regarding claim 24, Fisher et al. disclose said motor further comprises a stator winding supported by said frame within said first compartment, and an armature rotatably supported by said end shields and disposed within said first compartment adjacent said stator winding.

Regarding claim 25, Fisher et al. disclose said switchboard assembly comprises a plurality of electrical components for controlling said motor, and a mounting means for securing said electrical components in position on said switchboard.

Regarding claim 26, Fisher et al. disclose said switchboard assembly comprises a switch having a movable portion and a stationary portion.

Regarding claim 27, Fisher et al. disclose said switch stationary portion comprises at least one electrical terminal mounted in said switchboard and adapted for mating with a conductor in said movable portion.

Regarding claim 28, Fisher et al. disclose said switch has an engaged position wherein said movable portion is electrically engaged with said stationary portion, and a disengaged position wherein said movable portion is rotatable relative to said stationary portion.

Regarding claim 29, Fisher et al. disclose said switch has a first and second engaged positions wherein said movable portion is electrically engaged with said stationary portion, and a disengaged position wherein said movable portion is selectively movable between said first and second engaged positions.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (703) 308-7626. The fax phone number for this Group is (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0656.

A handwritten signature in cursive script, appearing to read 'Thanh Lam', written in black ink.

Thanh Lam

Patent Examiner